

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below
next to my name;

THAT I believe I am the original, first, and sole inventor (if only one inventor
is named below) or an original, first, and joint inventor (if plural inventors are named below
in an attached Declaration) of the subject matter which is claimed and for which a patent is
sought on the invention entitled

REACTOR CORE AND METHOD FOR OPERATING NUCLEAR REACTOR

the specification of which (check one)

_____ is attached hereto.

 x was filed on October 17, 2001 as United States
Application Number or PCT International Application Number
09/978,308 and was amended
on _____ (if applicable).

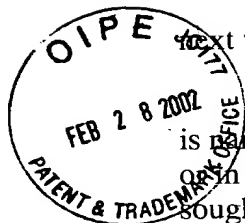
THAT I do not know and do not believe that the same invention was ever
known or used by others in the United States of America, or was patented or described in any
printed publication in any country, before I (we) invented it;

THAT I do not know and do not believe that the same invention was patented
or described in any printed publication in any country, or in public use or on sale in the
United States of America, for more than one year prior to the filing date of this United States
application;

THAT I do not know and do not believe that the same invention was first
patented or made the subject of an inventor's certificate that issued in any country foreign to
the United States of America before the filing date of this United States application if the
foreign application was filed by me (us), or by my (our) legal representatives or assigns, more
than twelve months (six months for design patents) prior to the filing date of this United
States application;

THAT I have reviewed and understand the contents of the above-identified
specification, including the claim(s), as amended by any amendment specifically referred to
above;

THAT I believe that the above-identified specification contains a written
description of the invention, and of the manner and process of making and using it, in such
full, clear, concise, and exact terms as to enable any person skilled in the art to which it



Atty. Dkt. No. _____

pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?
P.2000-317168	Japan	October 17, 2000	YES	

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number

Atty. Dkt. No. _____

I HEREBY APPOINT the following registered attorneys and agents of the law firm of FOLEY & LARDNER to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith:

STEPHEN A. BENT	Reg. No.	29,768
DAVID A. BLUMENTHAL	Reg. No.	26,257
BETH A. BURROUS	Reg. No.	35,087
ALAN I. CANTOR	Reg. No.	28,163
WILLIAM T. ELLIS	Reg. No.	26,874
JOHN J. FELDHAUS	Reg. No.	28,822
MICHAEL D. KAMINSKI	Reg. No.	32,904
LYLE K. KIMMS	Reg. No.	34,079
KENNETH E. KROSIN	Reg. No.	25,735
JOHNNY A. KUMAR	Reg. No.	34,649
JACK LAHR	Reg. No.	19,621
GLENN LAW	Reg. No.	34,371
PETER G. MACK	Reg. No.	26,001
STEPHEN B. MAEBIUS	Reg. No.	35,264
BRIAN J. MC NAMARA	Reg. No.	32,789
SYBIL MELOY	Reg. No.	22,749
RICHARD C. PEET	Reg. No.	35,792
GEORGE E. QUILLIN	Reg. No.	32,792
ANDREW E. RAWLINS	Reg. No.	34,702
BERNHARD D. SAXE	Reg. No.	28,665
CHARLES F. SCHILL	Reg. No.	27,590
RICHARD L. SCHWAAB	Reg. No.	25,479
MICHELE M. SIMKIN	Reg. No.	34,717
HAROLD C. WEGNER	Reg. No.	25,258

and I request that all correspondence be directed to:

RICHARD L. SCHWAAB
FOLEY & LARDNER
Washington Harbour
3000 K Street, N.W., Suite 500
Washington, D.C. 20007-5109

Telephone: (202) 672-5300

Facsimile: (202) 672-5399

I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under

Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name of first inventor	Mikihide NAKAMARU
Residence	Fujisawa-Shi, Kanagawa-Ken, Japan
Citizenship	Japan
Post Office Address	487-8, Nishitomi, Fujisawa-Shi, Kanagawa-Ken, Japan
Inventor's signature	<i>Mikihide Nakamaru</i>
Date	February 8, 2002
Name of second inventor	Hideaki HEKI
Residence	Yokohama-Shi, Kanagawa-Ken, Japan
Citizenship	Japan
Post Office Address	525-1-4-1005, Shinano-Cho, Totsuka-Ku, Yokohama-Shi, Kanagawa-Ken, Japan
Inventor's signature	<i>Hideaki Heki</i>
Date	February 8, 2002
Name of third inventor	Takehiko SAITO
Residence	Ohta-Ku, Tokyo, Japan
Citizenship	Japan
Post Office Address	3-9-14, Higashiyukigaya, Ohta-Ku, Tokyo, Japan
Inventor's signature	<i>T. Saito</i>
Date	February 8, 2002
Name of fourth inventor	Kouji HIRAIWA
Residence	Chigasaki-Shi, Kanagawa-Ken, Japan
Citizenship	Japan
Post Office Address	257-1-206, Yabata, Chigasaki-Shi, Kanagawa-Ken, Japan
Inventor's signature	<i>Kouji Hiraiwa</i>
Date	February 8, 2002

Atty. Dkt. No. _____

Name of fifth inventor Tadashi NARABAYASHI
Residence Yokohama-Shi, Kanagawa-Ken, Japan
Citizenship Japan
Post Office Address 5-32-1-101, Kasama, Sakae-Ku, Yokohama-Shi,
Kanagawa-Ken, Japan
Inventor's signature *Tadashi Narabayashi*
Date February 8, 2002

Name of sixth inventor Satoru OOMIZU
Residence Yokohama-Shi, Kanagawa-Ken, Japan
Citizenship Japan
Post Office Address 3-2-7-622, Namiki, Kanazawa-Ku, Yokohama-Shi,
Kanagawa-Ken, Japan
Inventor's signature *Satoru Oomizu*
Date February 8, 2002

Name of seventh inventor Tsuyoshi SHIMODA
Residence Yokohama-Shi, Kanagawa-Ken, Japan
Citizenship Japan
Post Office Address 329-4-203, Kaminakazato-Cho, Isogo-Ku,
Yokohama-Shi, Kanagawa-Ken, Japan
Inventor's signature *Tsuyoshi Shimoda*
Date February 8, 2002

Name of eighth inventor Kenji ARAI
Residence Kawasaki-Shi, Kanagawa-Ken, Japan
Citizenship Japan
Post Office Address 5-8-11, Miyazaki, Miyamae-Ku, Kawasaki-Shi,
Kanagawa-Ken, Japan
Inventor's signature *Kenji Arai*
Date February 8, 2002

Atty. Dkt. No. _____

Name of ninth inventor

Shinichi MOROOKA

Residence

Suginami-Ku, Tokyo, Japan

Citizenship

Japan

Post Office Address

3-13-14, Hon'amanuma, Suginami-Ku, Tokyo,
Japan

Inventor's signature

Shinichi Morooka

Date

February 8, 2002

Name of tenth inventor

Seijiro SUZUKI

Residence

Yokohama-Shi, Kanagawa-Ken, Japan

Citizenship

Japan

Post Office Address

1-3-11-703, Yoshino-Cho, Minami-Ku,
Yokohama-Shi, Kanagawa-Ken, Japan

Inventor's signature

Seijiro Suzuki

Date

February 8, 2002